

Remarks

Reconsideration of this Application is respectfully requested.

Claims 1-74 are pending in the application, with claims 1, 13, 25, 36, 49, and 62 being the independent claims. Claims 13-74 have been withdrawn by the Examiner due to an election of species requirement.

Based on the following remarks, Applicants respectfully request that the Examiner reconsider all outstanding objections and rejections and that they be withdrawn.

Rejections under 35 U.S.C. § 103

On page 2 of the Office Action, the Examiner rejected claims 1-4 and 6-12 as being unpatentable under 35 U.S.C. § 103 based on U.S. Patent No. 6,404,758 to Wang (“Wang”) in view of U.S. Patent No. 5,063,387 to Mower (“Mower”). Applicants respectfully traverse this rejection.

The combination of features recited in original claim 1 are neither taught nor suggested by Wang and/or Mower, alone or in combination. Nevertheless, in order to expedite prosecution, Applicants have amended claim 1 to recite a step of “simultaneously down-converting and performing a matched filtering/correlating operation on a portion of a carrier signal.”

The Examiner states in the last paragraph beginning on page 2 of the Office Action that Wang fails to disclose the recited feature, and that Mower is being applied to overcome the deficiency of Wang. Mower, however, does not teach or suggest “simultaneously down-converting and performing a matched filtering/correlating

operation on a portion of a carrier signal” as recited in claim 1. Down conversion in the circuit of Mower is performed by a down converter 13. Demodulation in the circuit of Mower is performed, after down conversion, by a coherent demodulator 16. The phase discriminator and matched filter 23 of Wang pointed out by the Examiner is a part of coherent demodulator 16. Accordingly, Mower fails to overcome the deficiency of Wang.

Claims 2-4 and 6-12 depend from independent claim 1 and are patentable over Wang and/or Mower, alone or in combination, for at least the same reasons as claim 1, noted above, and further for the specific features recited in these claims.

Reconsideration and withdrawal of this rejection of claims 1-4 and 6-12 are respectfully requested.

Objection To Claim 5

Applicants thank the Examiner for identifying claim 5 as containing allowable subject matter. For at least the reasons presented above, claim 1 is allowable. Thus, claim 5 is not dependent on an unallowable base claim. Reconsideration and allowance of claim 5 are respectfully requested.

Withdrawn Claims 13-74

Consideration and allowance of the species represented by claims 13-74 are respectfully requested.

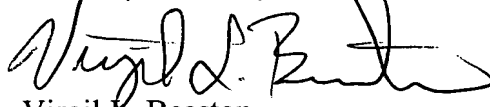
Conclusion

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicants believe that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

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